

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(search\$4 with (index\$2 or indices)) same file same attachment same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:21
L2	59	(search\$4 with (index\$2 or indices)) and (file with attachment) and server and client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:21
L3	2	707/3.ccls. and (search\$4 with (index\$2 or indices)) and (file with attachment) and server and client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:22
L4	1	707/200.ccls. and (search\$4 with (index\$2 or indices)) and (file with attachment) and server and client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:22
L5	10	(search\$4 adj (index\$2 or indices)) same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) and (search adj criteria)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L6	3	(search\$4 adj (index\$2 or indices)) same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) and (search adj criteria) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L7	0	(search\$4 adj (index\$2 or indices)) same server same client and (search adj criteria) and CRM and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L8	10	(search\$4 adj (index\$2 or indices)) same server same client and (search adj criteria) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23

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L9	231	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L10	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and CRM and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L11	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 adj relation\$5 adj mangement) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L12	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 with relation\$5 with management) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L13	4	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 same relation\$5 same management) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L14	59	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L15	47	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618" and (business with applica\$5 or component\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L16	6	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618" and (business with applica\$5 or component\$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L17	0	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and (business with component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23

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L18	1	(search\$4 with (index\$2 or indices)) same server same client and (business with component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L19	5	(business adj component) same (search adj index)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L20	287	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L21	1	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618" and (customer adj relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L22	3	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618" and (customer with relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L23	69	((creat\$4 or generat\$5) with search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L24	36031	(spell\$4 or error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L25	107	(spell\$4 with error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L26	111	(spell\$4 same error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L27	23	(spell\$4 same error\$4) with check and web and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23

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L28	8	"20020103876" or "20020107779" or "20020073075" or "20010051958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L29	4	"20020103876" or "20020107779" or "20020073075" or "20010051958"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L30	4973	(search\$4 with client) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L31	314	(search\$4 with client) same (search\$4 with (index\$2 or indices)) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L32	8	(search\$4 with client) same (search\$4 with (index\$2 or indices)) same (download\$4 with (index\$2 or indices)) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L33	0	(search\$4 with (index\$2 or indices)) same (business adj component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L34	0	(search\$4 with (index\$2 or indices)) same (business adj organization\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L35	0	(search\$4 with (index\$2 or indices)) same (business adj structure\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L36	3	(search\$4 with (index\$2 or indices)) same (business adj enti\$4) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L37	2	(search\$4 with (index\$2 or indices)) same (business with organization) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23

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L38	287	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L39	72	707/3.ccls. and L38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L40	65	707/10.ccls. and L38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L41	9	707/200.ccls. and L38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
L42	23	707/1.ccls. and L38	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:23
S1	10	(search\$4 adj (index\$2 or indices)) same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) and (search adj criteria)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:21
S2	3	(search\$4 adj (index\$2 or indices)) same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) and (search adj criteria) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:22
S3	9	(search\$4 adj (index\$2 or indices)) same server same client and (search adj criteria) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:24
S4	0	(search\$4 adj (index\$2 or indices)) same server same client and (search adj criteria) and CRM and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:23

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S5	215	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:32
S6	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and CRM and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:25
S7	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 adj relation\$5 adj mangement) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:26
S8	0	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 with relation\$5 with management) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:26
S9	4	(search\$4 with (index\$2 or indices)) same server same client and identif\$5 and (customer\$1 same relation\$5 same management) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/03 22:26
S10	55	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:48
S11	43	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618" and (business with applica\$5 or component\$2)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:38
S12	3	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and identif\$5 and @ad < "20010618" and (business with applica\$5 or component\$2))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:41
S13	0	(search\$4 with (index\$2 or indices) with (generat\$5 or creat\$5)) same server same client and (business with component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:49

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S14	1	(search\$4 with (index\$2 or indices)) same server same client and (business with component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 14:07
S15	5	(business adj component) same (search adj index)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 10:51
S16	269	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/09 18:32
S17	1	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618" and (customer adj relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 11:52
S18	2	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618" and (customer with relation\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 11:52
S19	64	((creat\$4 or generat\$5) with search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 12:34
S20	35206	(spell\$4 or error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 12:37
S21	101	(spell\$4 with error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 12:37
S22	105	(spell\$4 same error\$4) with check and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 12:37
S23	17	(spell\$4 same error\$4) with check and web and @ad < "20020103"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:11

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S24	8	"20020103876" or "20020107779" or "20020073075" or "20010051958"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:12
S25	4	"20020103876" or "20020107779" or "20020073075" or "20010051958"	USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:12
S26	4710	(search\$4 with client) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:47
S27	298	(search\$4 with client) same (search\$4 with (index\$2 or indices)) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:48
S28	8	(search\$4 with client) same (search\$4 with (index\$2 or indices)) same (download\$4 with (index\$2 or indices)) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 13:49
S29	0	(search\$4 with (index\$2 or indices)) same (business adj component\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 15:12
S30	0	(search\$4 with (index\$2 or indices)) same (business adj organization\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 15:13
S31	0	(search\$4 with (index\$2 or indices)) same (business adj structure\$2) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 15:13
S32	3	(search\$4 with (index\$2 or indices)) same (business adj enti\$4) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 15:19
S33	1	(search\$4 with (index\$2 or indices)) same (business with organization) and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/04 15:19

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S34	269	(search\$4 with (index\$2 or indices)) same server same client and @ad < "20010618"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/09 11:20
S35	70	707/3.ccls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/09 18:33
S36	62	707/10.ccls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/09 18:33
S37	8	707/200.ccls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/09 18:33
S38	23	707/1.ccls. and S34	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/09 18:33

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	("searchadj(index\$2orindic\$3)"). PN.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2003/11/21 12:02
S2	0	("searchwith(index\$2orindic\$3)"). PN.	US-PGPUB; USPAT; USOCR; JPO	OR	OFF	2003/11/21 12:03
S3	912	search adj (index\$2 or indices)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 14:10
S4	14	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/21 12:18
S5	175	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 11:10
S6	2	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) same (local adj (node\$1 or computer\$2 or server\$2 or cluster\$4 or machine)) and (search adj criteria)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/21 12:18
S7	57	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4)) and (search adj criteria) and (nodes or computers or servers or cluster or machines)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 08:16
S8	36	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4)) and (search adj criteria) and (nodes or computers or servers or cluster or machines) and (local same remote)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/21 12:21
S9	1	"6334124".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 08:17
S10	0	(search adj (index\$2 or indices)) same (download\$3 near1 ((index or indice\$2) adj file))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 10:32

EAST Search History

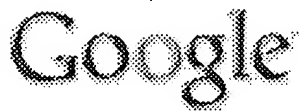
S11	10	(download\$3 near1 ((index or indice\$2) adj file))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 10:32
S12	0	(search adj (index\$2 or indices)) same (download\$3 adj ((index or indice\$2) adj file))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 10:32
S13	0	(search adj (index\$2 or indices)) same (download\$3 near1 ((index or indice\$2) adj file))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 10:32
S14	0	(download\$3 near1 ((index or indice\$2) adj file)) same (search adj index)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 10:33
S15	52	(search adj (index\$2 or indices)) and (download\$3 same (node\$1 or computer\$2 or server\$2 or cluster\$4)) and (index adj file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 11:38
S16	2	((compress\$3 or un\$compress\$3) and download\$3) with (index adj file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 11:40
S17	56	((compress\$3 or un\$compress\$3) and download\$3) with (index)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 12:06
S18	2	((compress\$3 or un\$compress\$3) and download\$3) with (index near file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 12:05
S19	0	((compress\$3 or un\$compress\$3) and download\$3) with (index) same search same server same client	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 12:35
S20	5	((compress\$3 or un\$compress\$3) and download\$3) with (index) same search	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 12:40
S21	2	((compress\$3 or de\$1compress or un\$1compress\$3) and download\$3) with (index near (table or file)) same search	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 12:50
S22	5	((compress\$3 or de\$1compress or un\$1compress\$3) and download\$3) with (index) same search	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 13:58
S23	167	707/3.ccls. and (search adj (index\$2 or indices))	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 14:11
S24	6	707/3.ccls. and (search adj (index\$2 or indices) adj file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/26 18:10

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S25	1	707/1.ccls. and (search adj (index\$2 or indices) adj file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 14:14
S26	0	707/200.ccls. and (search adj (index\$2 or indices) adj file)	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/24 14:14
S27	1	"6334124".pn.	US-PGPUB; USPAT; JPO	OR	OFF	2003/11/26 18:10
S28	0	"09/883776"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/11 21:45
S29	0	"Jian-Jung Ying"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/11 21:45
S30	3	"Jian-Jung" same "Ying"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/11 21:45
S31	0	"Srirama Channavajjala"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/12 09:24
S32	0	"Srirama Cha"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/12 09:24
S33	137	"Srirama" same "Channavajjala"	US-PGPUB; USPAT; JPO	OR	OFF	2004/06/12 09:24
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 նույնություն ...
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 operations indirectly via the **search** operation. referrals. The number of referrals returned by
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... 0 en-US Important program **components** could not be initialized correctly. ... this
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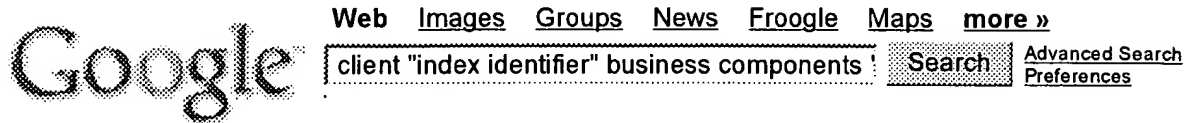
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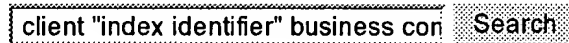
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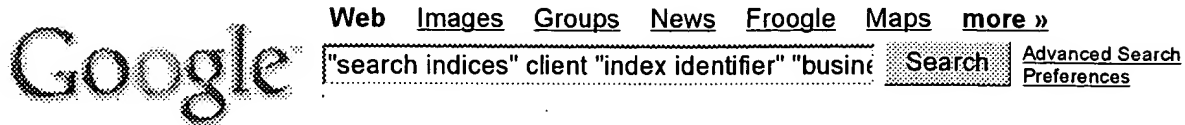


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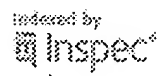
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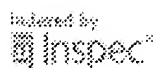
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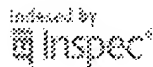
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1 [Query processing in a multimedia document system](#)



Elisa Bertino, Fausto Rabbiti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1**Publisher:** ACM Press

Full text available: pdf(2.94 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

2 [A survey of peer-to-peer content distribution technologies](#)



Stephanos Androutsellis-Theotokis, Diomidis Spinellis

December 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 4**Publisher:** ACM Press

Full text available: pdf(517.77 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. Peer-to-peer architectures are characterized by their ability to adapt to failures and accommodate transient populations of nodes while maintaining acceptable connectivity and performance. Content distribution is an important peer-to-peer application ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

3 [Client-server computing in mobile environments](#)



Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2**Publisher:** ACM Press

Full text available: pdf(233.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

4 Special issue on prototypes of deductive database systems: The CORAL deductive system

Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(3.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. CORAL supports a wide range of evaluation strategies, and automatically chooses an efficient strategy for each module in the program. Users can guide query optimization by selecting from a wide range of control choices. The CORAL system provides ...


Keywords: deductive database, logic programming system, query language

5 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  pdf(9.37 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...


Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

6 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available:  pdf(5.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

7 Peer-to-peer: Making gnutella-like P2P systems scalable



Yatin Chawathe, Sylvia Ratnasamy, Lee Breslau, Nick Lanham, Scott Shenker
August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications**

Publisher: ACM Press

Full text available: [pdf\(181.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Napster pioneered the idea of peer-to-peer file sharing, and supported it with a centralized file search facility. Subsequent P2P systems like Gnutella adopted decentralized search algorithms. However, Gnutella's notoriously poor scaling led some to propose distributed hash table solutions to the wide-area file search problem. Contrary to that trend, we advocate retaining Gnutella's simplicity while proposing new mechanisms that greatly improve its scalability. Building upon prior research [1, 1 ...

Keywords: Gnutella, distributed hash tables, peer-to-peer

8 Web-based specification and integration of legacy services

Ying Zou, Kostas Kontogiannis

November 2000 **Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(279.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the Internet, businesses of all sizes aim on applying networkwide solutions to their IT infrastructures, migrating their legacy business processes into web-based environments, and establishing their own on-line services. To facilitate process and service integration, a complete and information rich service description language, is essential for server processes to be specified and for client processes to be able to locate services that are available in Web-enabled re ...

9 Model-driven design and deployment of service-enabled web applications



Ioana Manolescu, Marco Brambilla, Stefano Ceri, Sara Comai, Piero Fraternali
August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Significant effort is currently invested in application integration, enabling business processes of different companies to interact and form complex multiparty processes. Web service standards, based on WSDL (Web Service Definition Language), have been adopted as process-to-process communication paradigms. However, the conceptual modeling of applications using Web services has not yet been addressed. Interaction with Web services is often specified at the level of the source code; thus, Web serv ...

Keywords: UML, Web application, Web services, WebML, modeling

10 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini



October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(6.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

11 The Alpine file system



M. R. Brown, K. N. Kolling, E. A. Taft

November 1985 **ACM Transactions on Computer Systems (TOCS)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: pdf(2.95 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Alpine is a file system that supports atomic transactions and is designed to operate as a service on a computer network. Alpine's primary purpose is to store files that represent databases. An important secondary goal is to store ordinary files representing documents, program modules, and the like. Unlike other file servers described in the literature, Alpine uses a log-based technique to implement atomic file update. Another unusual aspect of Alpine is that it performs all commu ...

12 The architecture of the EXODUS extensible DBMS

Michael J. Carey, David J. DeWitt, Daniel Frank, M. Muralikrishna, Goetz Graefe, Joel E. Richardson, Eugene J. Shekita

September 1986 **Proceedings on the 1986 international workshop on Object-oriented database systems**

Publisher: IEEE Computer Society Press

Full text available: pdf(1.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With non-traditional application areas such as engineering design, image/voice data management, scientific/statistical applications, and artificial intelligence systems all clamoring for ways to store and efficiently process larger and larger volumes of data, it is clear that traditional database technology has been pushed to its limits. It also seems clear that no single database system will be capable of simultaneously meeting the functionality and performance requirements of such a diver ...

13 SaveMe: a system for archiving electronic documents using messaging groupware



Stefan Berchtold, Alexandros Biliris, Euthimios Panagos

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration WACC '99**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, organizations deal with an ever-increasing number of documents that have to be archived because they are either related to their core business (e.g., product designs) or needed to meet corporate or legal retention requirements (e.g., voucher). In this paper, we present the architecture and prototype implementation of SaveMe, a document archival system that is based on network-centric groupware such as Internet standards-

based messaging systems. In SaveMe, the actions of archiving, retriev ...

Keywords: Internet, archiving, groupware, messaging

14 Web mining for web personalization



Magdalini Eirinaki, Michalis Vazirgiannis

February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available: [pdf\(293.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Web personalization is the process of customizing a Web site to the needs of specific users, taking advantage of the knowledge acquired from the analysis of the user's navigational behavior (usage data) in correlation with other information collected in the Web context, namely, structure, content, and user profile data. Due to the explosive growth of the Web, the domain of Web personalization has gained great momentum both in the research and commercial areas. In this article we present a survey ...

Keywords: WWW, Web personalization, Web usage mining, user profiling

15 The file system of an integrated local network



Paul J. Leach, Paul H. Levine, James A. Hamilton, Bernard L. Stumpf

March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science**

Publisher: ACM Press

Full text available: [pdf\(1.78 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The distributed file system component of the DOMAIN system is described. The DOMAIN system is an architecture for networks of personal workstations and servers which creates an integrated distributed computing environment. The distinctive features of the file system include: objects addressed by unique identifiers (UIDs); transparent access to objects, regardless of their location in the network; the abstraction of a single level store for accessing all objects; and the layering of a network ...

16 Knowledge-based document retrieval in office environments: the Kabiria system



Augusto Celentano, Maria Grazia Fugini, Silvano Pozzi

July 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

In the office environment, the retrieval of documents is performed using the concepts contained in the documents, information about the procedural context where the documents are used, and information about the regulations and laws that discipline the life of documents within a given application domain. To fulfill the requirements of such a sophisticated retrieval, we propose a document retrieval model and system based on the representation of knowledge describing the semantic contents of documents ...

Keywords: browser, class, hypertext, instance, knowledge base, link, object orientation, user interface

17 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann



August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

18 Measuring and characterizing end-to-end Internet service performance



Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance is a challenging task. Current techniques include periodic sampling of service characteristics from strategic locations in the network and instrumenting Web pages with code that reports client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive monitoring, reconstruction of web page composition, web site performance

19 Eclipse help system: an open source user assistance offering



Kari L. Halsted, James H. (Jamie) Roberts

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Publisher: ACM Press

Full text available: [pdf\(365.82 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we discuss the theoretical and practical elements of designing an open source User Assistance (UA) System. Specifically, we introduce UCD requirements, including those to accommodate different user modes for UA architectures and complex document integration. We then detail how these requirements were delivered in the open source Eclipse project.

Keywords: eclipse user assistance, user assistance, user-centered design

20 Industrial session: XML support in relational system: Native XML support in DB2 universal database



Matthias Nicola, Bert van der Linden

August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: [pdf\(240.25 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The major relational database systems have been providing XML support for several years, predominantly by mapping XML to existing concepts such as LOBs or (object-) relational tables. The limitations of these approaches are well known in research and industry. Thus, a forthcoming version of DB2 Universal Database® is enhanced with

comprehensive *native* XML support. "Native" means that XML documents are stored on disk pages in tree structures matching the XML data model. This avoids the ...

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21 [News on-demand for multimedia networks](#)



Gene Miller, Greg Baber, Mark Gilliland

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: [pdf\(106.03 KB\)](#) [ps\(1.21 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: authoring, database, digital video, information service, messaging, networked multimedia, news, retrieval, wideband

22 [The Cedar file system](#)



David K. Gifford, Roger M. Needham, Michael D. Schroeder

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.26 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Cedar File System (CFS) is a workstation file system that provides access to both a workstation's local disk and to remote file servers via a single hierarchical name space. CFS supports a group of cooperating programmers by allowing them to both manage local naming environments and to share consistent versions of collections of software.

23 [Peer-to-peer computing: Foreseer: a novel, locality-aware peer-to-peer system architecture for keyword searches](#)

Hailong Cai, Jun Wang

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(315.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Peer-to-peer (P2P) systems are becoming increasingly popular and complex, serving millions of users today. However, the design of current unstructured P2P systems does not take full advantage of rich locality properties present in P2P system workloads, thus possibly resulting in inefficient searches or poor system scalability. In this paper, we


propose a novel locality-aware P2P system architecture called Foreseer, which explicitly exploits <I>geographical</I> locality and <I>t ...

Keywords: Bloom filter, Foreseer, geographical locality, temporal locality

24 Extending document management systems with user-specific active properties

 Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton
April 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 2


Publisher: ACM Press

Full text available:  [pdf\(166.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional hierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

25 Practitioner reports: Service-oriented architecture and business process choreography in an order management scenario: rationale, concepts, lessons learned

 Olaf Zimmermann, Vadim Doubrovski, Jonas Grundler, Kerard Hogg
October 2005 **Companion to the 20th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '05**


Publisher: ACM Press

Full text available:  [pdf\(437.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Effective and affordable business-to-business process integration is a key success factor in the telecommunications industry. A large telecommunication wholesaler, supplying its services to more than 150 different service retailers, enhanced the process integration capabilities of its core order management system through widespread use of SOA, business process choreography and Web services concepts. This core order management system processes 120 different complex order types. On this project, ch ...


Keywords: B2B, BPEL, HTTP, J2EE, SOAP, WSDL, XML, application server, best practices, business process, order management, process choreography, process integration, service-oriented architecture, telecommunications, web application, web services, workflow

26 OAI in action: eBizSearch: an OAI-compliant digital library for eBusiness

 Yves Petinot, Pradeep B. Teregowda, Hui Han, C. Lee Giles, Steve Lawrence, Arvind Rangaswamy, Nirmal Pal

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: IEEE Computer Society


Full text available:  [pdf\(630.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Niche Search Engines offer an efficient alternative to traditional search engines when the results returned by general-purpose search engines do not provide a sufficient degree of

relevance and when nontraditional search features are required. Niche search engines can take advantage of their domain of concentration to achieve higher relevance and offer enhanced features. We discuss a new digital library niche search engine, eBizSearch, dedicated to e-business and e-business documents. The ground ...

27 The IBM data warehouse architecture

 Charles Bontempo, George Zagelow
September 1998 **Communications of the ACM**, Volume 41 Issue 9
Publisher: ACM Press

Full text available:  [pdf\(817.29 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)


28 Text file inversion: an evaluation

 R. M. Bird, J. B. Newsbaum, J. L. Trefftz
August 1978 **ACM SIGARCH Computer Architecture News**, **ACM SIGMOD Record**, **ACM SIGIR Forum**, Volume 7, 10, 13 Issue 2, 1, 2
Publisher: ACM Press

Full text available:  [pdf\(774.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper compares inversion of text files with inversion of more structured records. The unique characteristics of textual data which restrict the utility of inversion are identified and discussed. Inversion is shown to be useful only for small, static data bases, and when full text search is not required.

29 Information agents for automated browsing

 Chanda Dharap, Martin Freeman
November 1996 **Proceedings of the fifth international conference on Information and knowledge management**
Publisher: ACM Press

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

30 Trustworthy 100-year digital objects: Evidence after every witness is dead

 Henry M. Gladney
July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3
Publisher: ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no matter how distant this user is in time, space, and social affiliation from the document's source. We propose an architecture and design that a ...

31 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

 Jay Lepreau, Eric Eide
April 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 2
Publisher: ACM Press

Full text available:  [pdf\(3.15 MB\)](#) Additional Information: [full citation](#), [index terms](#)

32 Appication models: Client-system collaboration for legal corpus selection in an online production environment



Jack G. Conrad, Joanne R. S. Claussen

June 2003 **Proceedings of the 9th international conference on Artificial intelligence and law**

Publisher: ACM Press

Full text available: pdf(239.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: database selection, query categorization, user interaction

33 Data access for the masses through OLE DB



José A. Blakeley

June 1996 **ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data SIGMOD '96**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of OLE DB, a set of interfaces being developed at Microsoft whose goal is to enable applications to have uniform access to data stored in DBMS and non-DBMS information containers. Applications will be able to take advantage of the benefits of database technology without having to transfer data from its place of origin to a DBMS. Our approach consists of defining an open, extensible Collection of interfaces that factor and encapsulate orthogonal, reusable portions ...

34 Object orientation in multidatabase systems



Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid

June 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 2

Publisher: ACM Press

Full text available: pdf(4.85 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

35 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)



July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.19 MB\)](#)Additional Information: [full citation](#), [index terms](#)

36 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web 



Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security****Publisher:** ACM PressFull text available:  [pdf\(301.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

37 A service management framework for M-commerce applications 

Gary Shih, Simon S. Y. Shim

June 2002 **Mobile Networks and Applications**, Volume 7 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(650.12 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Mobile commerce (m-commerce) refers to an ability to conduct wireless commerce transactions using mobile applications in mobile devices. M-commerce applications can range from as simple as an address book synchronization to as complicated as credit card transactions. M-commerce is expected to grow dramatically in the near future supporting simple to complex commerce transactions. Even though the Wireless Application Protocol (WAP) is designed to facilitate the development of wireless application ...

Keywords: JINI, WAP, m-commerce, management, mobile devices

38 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems 





Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian


June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02****Publisher:** ACM PressFull text available:  [pdf\(1.44 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

39 Design and implementation of a distributed virtual machine for networked computers  Emin Gün Sirer, Robert Grimm, Arthur J. Gregory, Brian N. BershadDecember 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5**Publisher:** ACM PressFull text available:  [pdf\(1.62 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, architecture and performance of a distributed virtual machine (DVM) for networked computers. DVMs rely on a distributed service architecture to meet the manageability, security and uniformity requirements of large, heterogeneous clusters of networked computers. In a DVM, system services, such as verification, security enforcement, compilation and optimization, are factored out of clients and located on powerful network servers. This partitioning of system fun ...

40 Improving the granularity of access control for Windows 2000  Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory JensenworthNovember 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(447.78 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

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41 [Ubiquitous hypermedia: Integrating the web and the world: contextual trails on the](#)


[move](#)

Frank Allan Hansen, Niels Olof Bouvin, Bent G. Christensen, Kaj Grønbaek, Torben Bach Pedersen, Jevgenij Gagach

 August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

Publisher: ACM Press

Full text available: [pdf\(3.41 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents applications of HyCon, a framework for context aware hypermedia systems. The HyCon framework encompasses annotations, links, and guided tours associating locations and RFID- or Bluetooth-tagged objects with maps, Web pages, and collections of resources. The user-created annotations, links and guided tours, are represented as XLink structures, and HyCon introduces the use of XLink for the representation of recorded geographical paths with annotations and links. The HyCon archi ...

Keywords: SVG, XLink, context aware hypermedia, open hypermedia

42 [The software information base: a server for reuse](#)

Panos Constantopoulos, Matthias Jarke, John Mylopoulos, Yannis Vassiliou




 January 1995 **The VLDB Journal — The International Journal on Very Large Data**
Bases, Volume 4 Issue 1

Publisher: Springer-Verlag New York, Inc.



Full text available: [pdf\(1.87 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present an experimental software repository system that provides organization, storage, management, and access facilities for reusable software components. The system, intended as part of an applications development environment, supports the representation of information about requirements, designs and implementations of software, and offers facilities for visual presentation of the software objects. This article details the features and architecture of the repository system, the technical ch ...

Keywords: conceptual modeling, information storage and retrieval, object-oriented databases, reuse, software engineering

43 The process group approach to reliable distributed computing Kenneth P. BirmanDecember 1993 **Communications of the ACM**, Volume 36 Issue 12**Publisher:** ACM PressFull text available:  pdf(6.00 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** fault-tolerant process groups, message ordering, multicast communication**44** Information retrieval on the web Mei Kobayashi, Koichi TakedaJune 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2**Publisher:** ACM PressFull text available:  pdf(213.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review studies of the growth of the Internet and technologies that are useful for information search and retrieval on the Web. We present data on the Internet from several different sources, e.g., current as well as projected number of users, hosts, and Web sites. Although numerical figures vary, overall trends cited by the sources are consistent and point to exponential growth in the past and in the coming decade. Hence it is not surprising that about 85% of Internet user ...


Keywords: Internet, World Wide Web, clustering, indexing, information retrieval, knowledge management, search engine**45** Text file inversion: An evaluation R. M. Bird, J. B. Newsbaum, J. L. TrefftzAugust 1978 **Proceedings of the fourth workshop on Computer architecture for non-numeric processing****Publisher:** ACM PressFull text available:  pdf(679.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper compares inversion of text files with inversion of more structured records. The unique characteristics of textual data which restrict the utility of inversion are identified and discussed. Inversion is shown to be useful only for small, static data bases, and when full text search is not required.

46 Systematic concurrent object-oriented programming Bertrand MeyerSeptember 1993 **Communications of the ACM**, Volume 36 Issue 9**Publisher:** ACM PressFull text available:  pdf(7.19 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Eiffel, concurrency, object-oriented concurrent programming**47** Authentication in distributed systems: theory and practice

Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber

 November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4
Publisher: ACM Press

Full text available:  [pdf\(3.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegated authority. The theory shows how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We ...

Keywords: certification authority, delegation, group, interprocess communication, key distribution, loading programs, path name, principal, role, secure channel, speaks for, trusted computing base

48 Special issue: AI in engineering


 D. Sriram, R. Joobhani
 April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press


Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

49 The Multics kernel design project

 Michael D. Schroeder, David D. Clark, Jerome H. Saltzer
 November 1977 **Proceedings of the sixth ACM symposium on Operating systems principles**

Publisher: ACM Press

Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a plan to create an auditable version of Multics. The engineering experiments of that plan are now complete. Type extension as a design discipline has been demonstrated feasible, even for the internal workings of an operating system, where many subtle intermodule dependencies were discovered and controlled. Insight was gained into several tradeoffs between kernel complexity and user semantics. The performance and size effects of this work are encouraging. We conclude that verifi ...

Keywords: Multics, Operating systems, Protection, Security, Security kernel, Supervisors, Type extension, Verifiable systems


50 Archival storage for digital libraries


 Arturo Crespo, Hector Garcia-Molina
 May 1998 **Proceedings of the third ACM conference on Digital libraries**

Publisher: ACM Press

Full text available:  [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

51 Research sessions: potpourri: Executing SQL over encrypted data in the database-service-provider model

-  Hakan Hacigümüş, Bala Iyer, Chen Li, Sharad Mehrotra
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press

Full text available:  [pdf\(1.25 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Rapid advances in networking and Internet technologies have fueled the emergence of the "software as a service" model for enterprise computing. Successful examples of commercially viable software services include rent-a-spreadsheet, electronic mail services, general storage services, disaster protection services. "Database as a Service" model provides users power to create, store, modify, and retrieve data from anywhere in the world, as long as they have access to the Internet. It introduces sev ...

52 A window-based help, tutorial and documentation system 

-  Jean-Marie Comeau, Peter R. Milton
November 1993 **Proceedings of the 11th annual international conference on Systems documentation**

Publisher: ACM Press

Full text available:  [pdf\(1.07 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

53 Early user---system interaction for database selection in massive domain-specific online environments 

-  Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(845.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

54 Formalizing the safety of Java, the Java virtual machine, and Java card 

-  Pieter H. Hartel, Luc Moreau
December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(442.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

Keywords: Common criteria, programming

55 The structure of Cedar

Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann
 June 1985 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 , 18 Issue 7 , 6

Publisher: ACM Press

Full text available: [pdf\(1.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

56 The use of web structure and content to identify subjectively interesting web usage patterns

Robert Cooley
 May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: [pdf\(540.06 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The discipline of Web Usage Mining has grown rapidly in the past few years, despite the crash of the e-commerce boom of the late 1990s. Web Usage Mining is the application of data mining techniques to Web clickstream data in order to extract usage patterns. Yet, with all of the resources put into the problem, claims of success have been limited and are often tied to specific Web site properties that are not found in general. One reason for the limited success has been a component of Web Usage Mi ...

Keywords: Data mining, Web usage mining, World Wide Web

57 Research sessions: indexing and tuning: Transaction support for indexed summary views

Goetz Graefe, Michael Zwilling
 June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: [pdf\(168.70 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Materialized views have become a standard technique for performance improvement in decision support databases and for a variety of monitoring purposes. In order to avoid inconsistencies and thus unpredictable query results, materialized views and their indexes should be maintained immediately within user transaction just like indexes on ordinary tables. Unfortunately, the smaller a materialized view is, the higher the concurrency contention between queries and updates as well as among concurrent ...

58 A survey and analysis of Electronic Healthcare Record standards

Marco Eichelberg, Thomas Aden, Jörg Riesmeier, Asuman Dogac, Gokce B. Laleci
 December 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 4

Publisher: ACM Press

Full text available: [pdf\(844.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Medical information systems today store clinical information about patients in all kinds of proprietary formats. To address the resulting interoperability problems, several Electronic

Healthcare Record standards that structure the clinical content for the purpose of exchange are currently under development. In this article, we present a survey of the most relevant Electronic Healthcare Record standards, examine the level of interoperability they provide, and assess their functionality in terms o ...

Keywords: Electronic Healthcare Record standards, eHealth, interoperability

59 The Web Service Discovery Architecture

Wolfgang Hoschek

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society Press

Full text available:  pdf(282.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose the Web Service Discovery Architecture (WSDA). At runtime, Grid applications can use this architecture to discover and adapt to remote services. WSDA promotes an interoperable web service discovery layer by defining appropriate services, interfaces, operations and protocol bindings, based on industry standards. It is unified because it subsumes an array of disparate concepts, interfaces and protocols under a single semi-transparent umbrella. It is modular because it def ...

60 Extraction and Visualization: Webformulate: a web-based visual continual query system



Jennifer Leopold, Meg Heimovics, Tyler Palmer

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(423.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today there is a plethora of data accessible via the Internet. The Web has greatly simplified the process of searching for, accessing, and sharing information. However, a considerable amount of Internet-distributed data still goes unnoticed and unutilized, particularly in the case of frequently-updated, Internet-distributed databases. In this paper we give an overview of *WebFormulate*, a Web-based visual continual query system that addresses the problems associated with formulating tempora ...

Keywords: continual query, visual programming language, visual query system

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61 [The computing research repository: promoting the rapid dissemination and archiving of computer science research](#)

Joseph Y. Halpern, Carl Lagoze

August 1999 **Proceedings of the fourth ACM conference on Digital libraries****Publisher:** ACM PressFull text available: [pdf\(113.94 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

62 [Performance Workload Char. and Adaptation: Aliasing on the world wide web: prevalence and performance implications](#)

Terence Kelly, Jeffrey Mogul

May 2002 **Proceedings of the 11th international conference on World Wide Web****Publisher:** ACM PressFull text available: [pdf\(376.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and other causes. Existing research literature, however, says little about the prevalence of aliasing in user-initiated transactions, or about redundant payload transfers in conventional Web cache hierarchies. This paper quantifies the extent of aliasing ...

Keywords: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

63 [General storage protection techniques: Securing distributed storage: challenges, techniques, and systems](#)

Vishal Kher, Yongdae Kim

November 2005 **Proceedings of the 2005 ACM workshop on Storage security and survivability StorageSS '05****Publisher:** ACM PressFull text available: [pdf\(294.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The rapid increase of sensitive data and the growing number of government regulations that require longterm data retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we discuss important security issues related to storage and present a comprehensive survey of the security services provided by the existing storage systems. We cover a broad range of the storage security literature, present a critical review of the existing solutions, compare ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

64 Transforming the content management process at IBM.com

 Louis Weitzman, Sara Elo Dean, Dikran Meliksetian, Kapil Gupta, Nianjun Zhou, Jessica Wu
April 2002 **Case studies of the CHI2002|AIGA Experience Design FORUM**

Publisher: ACM Press

Full text available:  [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This case study explores the evolution of the Franklin Content Management System, developed by IBM's Internet Technology Group. Franklin began as a technology-driven process to provide a web content management solution with the following goals: content reusability, simplified management of content and design that enforces integrity and consistency, the customization of content to individual users, and the delivery of content to a variety of display devices. These goals were met in part by the dec ...

Keywords: DTD, XML, XSL, content management, content reuse, customization, information architecture, object dependency, software development, web publishing

65 Abstracts of Articles in the Information Retrieval Area Selected by Gerard Salton
September 1986 **ACM SIGIR Forum**, Volume 21 Issue 1-2



Publisher: ACM Press

Full text available:  [pdf\(1.10 MB\)](#) Additional Information: [full citation](#)


66 Vision & challenges: A peer-to-peer approach to wireless LAN roaming



Elias C. Efstathiou, George C. Polyzos

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM Press

Full text available:  [pdf\(279.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. The ubiquitous Internet access that the roaming users of these domains could enjoy compensates for their home domain's cost of providing access to visitors. Existing roaming schemes utilize central authorities or bilateral contracts to control acc ...


Keywords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

67 Transaction processing monitors



Philip A. Bernstein


November 1990 **Communications of the ACM**, Volume 33 Issue 11

Publisher: ACM PressFull text available:  [pdf\(3.06 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A transaction processing (TP) application is a program that performs an administrative function by accessing a shared database on behalf of an on-line user. A TP system is an integrated set of products that supports TP applications. These products include both hardware, such as processors, memories, disks and communications controllers, and software such as operating systems (Oss), database management systems (DBMSs), computer networks and TP monitors. Much of the integration of these prod ...

68 Object operations benchmark

R. G. G. Cattell, J. Skeen


March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(2.08 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Performance is a major issue in the acceptance of object-oriented and relational database systems aimed at engineering applications such as computer-aided software engineering (CASE) and computer-aided design (CAD). Because traditional database systems benchmarks are inappropriate to measure performance for operations on engineering objects, we designed a new benchmark Object Operations version 1 (OO1) to focus on important characteristics of these applications. OO1 is descended from an ear ...

Keywords: CAD, CASE, client-server architecture, engineering database benchmark, hypermodel, object operations benchmark, object-oriented DBMS's, relation of DBMS's, workstations

69 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst


December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(2.31 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

70 Cost-based query optimization for metadata repositories

Martin Staudt, René Soiron, Christoph Quix, Matthias Jarke

March 1999 **ACM SIGAPP Applied Computing Review**, Volume 7 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.04 MB\)](#)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Query optimization strategies for repository systems must take into account the rich and often unpredictable structure of metadata, as well as supporting complex analysis of relationships between those structures. This paper describes rationale, design, and

system integration of a cost-based query optimizer offered in ConceptBase, a metadata manager that supports these capabilities by a deductive object-oriented data model. In contrast to most implemented DBMS, the optimizer is not based on the ...

71 RBAC for Collaborative Environments: Role-based access control for collaborative enterprise in peer-to-peer computing environments



Joon S. Park, Junseok Hwang

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(324.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In Peer-to-Peer (P2P) computing environments, each participant (peer) acts as both client and content provider. This satisfies the requirement that resources should be increasingly made available by being published to other users from a user's machine. Compared with services performed by the client-server model, P2P-based services have several advantages. However, wide-scale application of P2P computing is constrained by limitations associated with the especially sophisticated control mechanisms ...

Keywords: peer-to-peer computing, role-based access control, security

72 Columns: Surfing the net for software engineering notes



Mark Doernhoefer

July 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.32 MB\)](#) Additional Information: [full citation](#)

73 Digital rights management for content distribution

Qiong Liu, Reihaneh Safavi-Naini, Nicholas Paul Sheppard

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03**

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(224.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Transferring the traditional business model for selling digital goods linked to physical media to the online world leads to the need for a system to protect digital intellectual property. Digital Rights Management(DRM) is a system to protect high-value digital assets and control the distribution and usage of those digital assets. This paper presents a review of the current state of DRM, focusing on security technologies, underlying legal implications and main obstacles to DRM deployment with the ...

Keywords: DRM, digital content

74 Cryptography and competition policy: issues with 'trusted computing'



Ross Anderson

July 2003 **Proceedings of the twenty-second annual symposium on Principles of distributed computing**


Publisher: ACM Press

Full text available: [pdf\(991.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The most significant strategic development in information technology over the past year

has been 'trusted computing'. This is popularly associated with Microsoft's 'Palladium' project, recently renamed 'NGSCB'. In this paper, I give an outline of the technical aspects of 'trusted computing' and sketch some of the public policy consequences.

75 Scalable Grid Service Discovery based on UDDI

 Sujata Banerjee, Sujoy Basu, Shishir Garg, Sukesh Garg, Sung-Ju Lee, Pramila Mullan, Puneet Sharma

November 2005 **Proceedings of the 3rd international workshop on Middleware for grid computing MGC '05**


Publisher: ACM Press

Full text available:  [pdf\(391.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Efficient discovery of grid services is essential for the success of grid computing. The standardization of grids based on web services has resulted in the need for scalable web service discovery mechanisms to be deployed in grids. Even though UDDI has been the de facto industry standard for web-services discovery, imposed requirements of tight-replication among registries and lack of autonomous control has severely hindered its widespread deployment and usage. With the advent of grid computing t ...


Keywords: DHT, MDS, UDDI, discovery, grid computing, web services

76 Role-based access control on the web

 Joon S. Park, Ravi Sandhu, Gail-Joon Ahn

February 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(331.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Current approaches to access control on the Web servers do not scale to enterprise-wide systems because they are mostly based on individual user identities. Hence we were motivated by the need to manage and enforce the strong and efficient RBAC access control technology in large-scale Web environments. To satisfy this requirement, we identify two different architectures for RBAC on the Web, called user-pull and server-pull. To demonstrate feasibility, we im ...


Keywords: WWW security, cookies, digital certificates, role-based access control

77 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis


June 1998 **Mobile Networks and Applications**, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(747.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes at very low bit-rates; however, in July 1994, its scope was expanded to include coding of scenes as a collection of individual audio-visual objects and enabling a range of advanced functionalities not supported by other standards. One of the ke ...

78 Andrew: a distributed personal computing environment

 James H. Morris, Mahadev Satyanarayanan, Michael H. Conner, John H. Howard, David S. Rosenthal, F. Donelson Smith

March 1986 **Communications of the ACM**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Information Technology Center (ITC), a collaborative effort between IBM and Carnegie-Mellon University, is in the process of creating Andrew, a prototype computing and communication system for universities. This article traces the origins of Andrew, discusses its goals and strategies, and gives an overview of the current status of its implementation and usage.

79 Using Web Service Technologies to Create an Information Broker: An Experience Report

Mark Turner, Fujun Zhu, Ioannis Kotsiopoulos, Michelle Russell, David Budgen, Keith Bennett, Pearl Brereton, John Keane, Paul Layzell, Michael Rigby

May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

Full text available:  [pdf\(305.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


This paper reports on our experiences with using the emerging web service technologies and tools to create a demonstration information broker system as part of our research into information management in a distributed environment. To provide a realistic context we chose to study the use of information in the healthcare domain, and this context sets some challenging parameters and constraints for our research and for the demonstration system. In this paper we both report on the extent to which existing we ...

80 Draft report of the Federal Internetworking Requirements Panel, and selected responses

Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(4.15 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

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81 [Technical columns: Distributed computing research issues in grid computing](#)



Henri Casanova

September 2002 **ACM SIGACT News**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.99 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

Ensembles of distributed, heterogeneous resources, or *Computational Grids*, have emerged as popular platforms for deploying large-scale and resource-intensive applications. Large collaborative efforts are currently underway to provide the necessary software infrastructure. *Grid computing* raises challenging issues in many areas of computer science, and especially in the area of *distributed computing*, as Computational Grids cover increasingly large networks and span many organi ...

82 [Location-aware mobile applications based on directory services](#)

Henning Maass

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(421.47 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the I ...

83 [iMobile EE: an enterprise mobile service platform](#)

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(2.90 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol

interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

84 Industry track session: Automated cleansing for spend analytics

 Moninder Singh, Jayant R. Kalagnanam, Sudhir Verma, Amit J. Shah, Swaroop K. Chalasani
October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**


Publisher: ACM Press

Full text available:  pdf(490.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of an aggregate view of the procurement spend across an enterprise using transactional data is increasingly becoming a very important and strategic activity. Not only does it provide a complete and accurate picture of what the enterprise is buying and from whom, it also allows it to consolidate suppliers, as well as negotiate better prices. The importance, as well as the complexity, of this cleansing exercise is further magnified by the increasing popularity of Business Transform ...

Keywords: commodity mapping, information retrieval, knowledge management, spend analysis, unstructured data

85 Industry track: RStar: an RDF storage and query system for enterprise resource management

 Li Ma, Zhong Su, Yue Pan, Li Zhang, Tao Liu
November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available:  pdf(704.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Modern corporations operate in an extremely complex environment and strongly depend on all kinds of information resources across the enterprise. Unfortunately, with the growth of an enterprise, its information resources are not only heterogeneous but also distributed in physically different systems and databases. How to effectively exploit information across the enterprise is becoming a critical but hard problem. In recent years, metadata which is the detailed description of the data is used ...

Keywords: RDF query language, RDF storage, metadata, ontology, resource management

86 Personal distributed computing: the Alto and Ethernet software

 Butler Lampson
January 1986 **Proceedings of the ACM Conference on The history of personal workstations**


Publisher: ACM Press

Full text available:  pdf(3.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The personal distributed computing system based on the Alto and the Ethernet was a major effort to make computers help people to think and communicate. The paper describes the complex and diverse collection of software that was built to pursue this goal, ranging from operating systems, programming environments, and communications

software to printing and file servers, user interfaces, and applications such as editors, illustrators, and mail systems.

87 Modeling and assessing inference exposure in encrypted databases

 Alberto Ceselli, Ernesto Damiani, Sabrina De Capitani Di Vimercati, Sushil Jajodia, Stefano Paraboschi, Pierangela Samarati
February 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(727.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The scope and character of today's computing environments are progressively shifting from traditional, one-on-one client-server interaction to the new cooperative paradigm. It then becomes of primary importance to provide means of protecting the secrecy of the information, while guaranteeing its availability to legitimate clients. Operating online querying services securely on open networks is very difficult; therefore many enterprises outsource their data center operations to external applicati ...

Keywords: Cryptography, database service, indexing, inference

88 Implementing catalog clearinghouses with XML and XSL

 Andrew V. Royappa
February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available:  [pdf\(753.90 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SGML, XML, XSL, e-commerce

89 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles

 Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta
May 2003 **Proceedings of the 12th international conference on World Wide Web**


Publisher: ACM Press

Full text available:  [pdf\(693.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

90 Third Generation Computer Systems


 Peter J. Denning
December 1971 **ACM Computing Surveys (CSUR)**, Volume 3 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(3.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The common features of third generation operating systems are surveyed from a general view, with emphasis on the common abstractions that constitute at least the basis for a "theory" of operating systems. Properties of specific systems are not discussed except where examples are useful. The technical aspects of issues and concepts are stressed, the nontechnical aspects mentioned only briefly. A perfunctory knowledge of third generation systems is presumed.

91 A scaleable event infrastructure for peer to peer grids

 Geoffrey Fox, Shrideep Pallickara, Xi Rao
November 2002 **Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande**


Publisher: ACM Press

Full text available:  [pdf\(400.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


In this paper we propose a peer-to-peer (P2P) grid comprising resources such as relatively static clients, high-end resources and a dynamic collection of multiple P2P subsystems. We investigate the architecture of the messaging and event service that will support such a hybrid environment. We designed a distributed publish-subscribe system NaradaBrokering for XML specified messages. NaradaBrokering interpolates between centralized systems like JMS (Java Message Service) and P2P environments. Her ...

Keywords: JXTA, P2P systems, event distribution systems, grid computing, middleware

92 Interoperability of multiple autonomous databases

 Witold Litwin, Leo Mark, Nick Roussopoulos
September 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and long-haul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

93 A reengineering framework for evaluating a financial imaging system

 Henry C. Lucas, Donald J. Berndt, Greg Truman
May 1996 **Communications of the ACM**, Volume 39 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(261.73 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

94 Columns: Risks to the public in computers and related systems

 Peter G. Neumann
January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(3.24 MB\)](#) Additional Information: [full citation](#)

95 Technical correspondence

CORPORATE Tech Correspondence

October 1989 **Communications of the ACM**, Volume 32 Issue 10

Publisher: ACM Press

Full text available:  [pdf\(2.15 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

96 Architecture and implementation of Web sites: Design for verification for asynchronously communicating Web services

Aysu Betin-Can, Tevfik Bultan, Xiang Fu

May 2005 **Proceedings of the 14th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(149.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a design for verification approach to developing reliable web services. We focus on composite web services which consist of asynchronously communicating peers. Our goal is to automatically verify properties of interactions among such peers. We propose a design pattern that eases the development of such web services and enables a modular, assume-guarantee style verification strategy. In the proposed design pattern, each peer is associated with a behavioral interface description which s ...

Keywords: BPEL, asynchronous communication, composite web services, design patterns

97 Versioning and fragmentation: Fine-grained, structured configuration management for web projects

Tien Nhut Nguyen, Ethan Vincent Munson, Cheng Thao

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(698.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Researchers in Web engineering have regularly noted that existing Web application development environments provide little support for managing the evolution of Web applications. Key limitations of Web development environments include line-oriented change models that inadequately represent Web document semantics and in ability to model changes to link structure or the set of objects making up the Web application. Developers may find it difficult to grasp how the overall structure of the Web applica ...

Keywords: software configuration management, version control, web engineering

98 Ext3cow: a time-shifting file system for regulatory compliance

Zachary Peterson, Randal Burns

May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(443.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and auditability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

99 What does aspect-oriented programming mean to Cobol?

Ralf Lämmel, Kris De Schutter

March 2005 **Proceedings of the 4th international conference on Aspect-oriented software development AOSD '05****Publisher:** ACM PressFull text available: pdf(172.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study AOP in the context of business programming with Cobol. We face the following questions: What are join points in Cobol programs? What is advice? Does classic Cobol provide any constructs that hint at AOP? (Yes!) What are typical crosscutting concerns in the Cobol world? How do otherwise typical crosscutting concerns make sense for Cobol? How does AOP for Cobol align with classic re-engineering transformations for Cobol? We deliver an AOP language design for Cobol. Codename: AspectCobol. ...

Keywords: Cobol, aspect-oriented programming, business programming**100** A loosely-coupled integration of a text retrieval system and an object-oriented database system

W. Bruce Croft, Lisa A. Smith, Howard R. Turtle

June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval****Publisher:** ACM PressFull text available: pdf(854.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Document management systems are needed for many business applications. This type of system would combine the functionality of a database system, (for describing, storing and maintaining documents with complex structure and relationships) with a text retrieval system (for effective retrieval based on full text). The retrieval model for a document management system is complicated by the variety and complexity of the objects that are represented. In this paper, we describe an approach to compl ...

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Ganesan Shankaranarayanan, Adir Even

February 2006 **Communications of the ACM**, Volume 49 Issue 2**Publisher:** ACM PressFull text available: [pdf\(112.89 KB\)](#) [html\(31.26 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Metadata promises too much value as a business management tool to dismiss its implementation and maintenance effort as the equivalent of Sisyphean torture.

102 [Analysis of enterprise media server workloads: access patterns, locality, content evolution, and rates of change](#)

Ludmila Cherkasova, Minaxi Gupta

October 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 5**Publisher:** IEEE PressFull text available: [pdf\(574.62 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding the nature of media server workloads is crucial to properly designing and provisioning current and future media services. The main issue we address in this paper is the workload analysis of today's enterprise media servers. This analysis aims to establish a set of properties specific to the enterprise media server workloads and to compare them to well-known related observations about the web server workloads. We partition the media workload properties in two groups: static and t ...

Keywords: access patterns, content evolution, dynamics, enterprise media servers, locality, sharing patterns, static and temporal properties, workload analysis

103 [EFTS social and technical issues: what are EFTS?](#)

Rob Kling

September 1976 **ACM SIGCAS Computers and Society**, Volume 7 Issue 3**Publisher:** ACM PressFull text available: [pdf\(1.26 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#)

104


 Characterizing a national community web 

Daniel Gomes, Mário J. Silva

August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(364.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents a characterization of the community Web of the people of Portugal. We defined criteria for delimiting this Web based on our past experience of crawling pages related to Portugal and collected over 3.2 million documents from 46,000 sites satisfying those criteria. Our characterization was derived from this crawl. We describe the rules that we established for defining the boundaries of this community Web and the methodology used to gather statistics. Statistics cover the numb ...

Keywords: Portuguese Web, Web characterization, Web communities, Web measurements


105 Improving interactive performance using TIPME  Yasuhiro Endo, Margo SeltzerJune 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

On the vast majority of today's computers, the dominant form of computation is GUI-based user interaction. In such an environment, the user's perception is the final arbiter of performance. Human-factors research shows that a user's perception of performance is affected by unexpectedly long delays. However, most performance-tuning techniques currently rely on throughput-sensitive benchmarks. While these techniques improve the average performance of the system, they do littl ...

Keywords: interactive performance, monitoring

106 Geo-coding—an application in a local governmental information system  Alan C. RichterJanuary 1968 **Proceedings of the 1968 23rd ACM national conference****Publisher:** ACM PressFull text available:  [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Across the nation, local governments of suburban communities surrounding major central cities are facing several basic problems: (1) a tremendous explosion in the development of land that is creating chaos in the record keeping and handling systems of these local governmental entities. This is primarily due to the sheer increase in volume; (2) the increasing population of these suburban areas is becoming more affluent, its tax rates are increasing rapidly, and is expecting more and better g ...

107 Conceptual modeling and metadata: Grid metadata catalog service-based OGC web registry service  Peisheng Zhao, Aijun Chen, Yang Liu, Liping Di, Wenli Yang, Peichuan LiNovember 2004 **Proceedings of the 12th annual ACM international workshop on Geographic information systems****Publisher:** ACM PressFull text available:  [pdf\(128.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Grid is a promising e-Science infrastructure that promotes and facilitates the sharing and collaboration in the use of distributed heterogeneous resources through Virtual Organization (VO). A critical factor to the overall utility of Grid is a scalable, flexible and robust registry mechanism. Although it provides some mechanisms to store and access metadata for publishing and discovering resources, such as MCS (Metadata Catalog Service), the Grid registry is inadequate for dealing with domain ...

Keywords: OGC, OWL, catalog, grid, information model, ontology, semantic

108 Portals: toward an application framework for interoperability



Michael Alan Smith

October 2004 **Communications of the ACM**, Volume 47 Issue 10

Publisher: ACM Press

Full text available: pdf(110.50 KB)

html(27.45 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A common portal definition, universal client, and application-support infrastructure would turn the portal concept on its head, eventually shifting control from the information providers to the information consumers.

109 System Administration: Pgfs: The PostGres File System

Brian Bartholomew

October 1997 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available: html(21.60 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

110 Developing domain knowledge through the reuse of project experiences



Scott Henninger

August 1995 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1995 Symposium on Software reusability SSR '95**, Volume 20 Issue S1

Publisher: ACM Press

Full text available: pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software development is no longer a homogenous field. Software is being developed for an increasingly diverse set of applications and user populations, each with different characteristics and development constraints. As a consequence, researchers and practitioners have begun to realize the importance of identifying and understanding the characteristics and special development needs of application domains. This paper presents a method for developing and refining knowledge about application d ...

111 DHT: OpenDHT: a public DHT service and its uses



Sean Rhea, Brighten Godfrey, Brad Karp, John Kubiawicz, Sylvia Ratnasamy, Scott Shenker, Ion Stoica, Harlan Yu

August 2005 **Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**

Publisher: ACM Press

Full text available: pdf(535.74 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large-scale distributed systems are hard to deploy, and distributed hash tables (DHTs) are no exception. To lower the barriers facing DHT-based applications, we have created a public DHT service called OpenDHT. Designing a DHT that can be widely shared, both among mutually untrusting clients and among a variety of applications, poses two distinct challenges. First, there must be adequate control over storage allocation so that greedy or malicious clients do not use more than their fair share. Se ...

Keywords: distributed hash table, peer-to-peer, resource allocation

112 Impact of software engineering research on the practice of software configuration management 



Jacky Estublier, David Leblang, André van der Hoek, Reidar Conradi, Geoffrey Clemm, Walter Tichy, Darcy Wiborg-Weber

October 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 14 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(350.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Software Configuration Management (SCM) is an important discipline in professional software development and maintenance. The importance of SCM has increased as programs have become larger, more long lasting, and more mission and life critical. This article discusses the evolution of SCM technology from the early days of software development to the present, with a particular emphasis on the impact that university and industrial research has had along the way. Based on an analysis of the publicati ...

Keywords: Versioning, data model, process support, research impact, software configuration management, software engineering, workspace management


113 Research session: data warehousing and archive: An adaptive peer-to-peer network for distributed caching of OLAP results 



Panos Kalnis, Wee Siong Ng, Beng Chin Ooi, Dimitris Papadias, Kian-Lee Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available:  [pdf\(1.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peer-to-Peer (P2P) systems are becoming increasingly popular as they enable users to exchange digital information by participating in complex networks. Such systems are inexpensive, easy to use, highly scalable and do not require central administration. Despite their advantages, however, limited work has been done on employing database systems on top of P2P networks. Here we propose the PeerOLAP architecture for supporting On-Line Analytical Processing queries. A large number low-end clients, eac ...


114 Hypermedia semantics: Finding the story: broader applicability of semantics and discourse for hypermedia generation 



Lloyd Rutledge, Martin Alberink, Rogier Brussee, Stanislav Pokraev, William van Dielen, Mettina Veenstra

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**


Publisher: ACM Press

Full text available:  [pdf\(396.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Generating hypermedia presentations requires processing constituent material into coherent, unified presentations. One large challenge is creating a generic process for producing hypermedia presentations from the semantics of potentially unfamiliar domains. The resulting presentations must both respect the underlying semantics and appear as coherent, plausible and, if possible, pleasant to the user. Among the related unsolved problems is the inclusion of discourse knowledge in the generation pro ...


Keywords: RDF, SMIL, clustering, concept lattices, discourse, hypermedia, narrative, semantics

115 Programming languages for mobile code

 Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3


Publisher: ACM Press

Full text available:  [pdf\(393.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Sun's announcement of the programming language Java more than anything popularized the notion of mobile code, that is, programs traveling on a heterogeneous network and automatically executing upon arrival at the destination. We describe several classes of mobile code and extract their common characteristics, where security proves to be one of the major concerns. With these characteristics as reference points, we examine six representative languages proposed for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal methods, mobile code, network programming, object orientation, portability, safety, security, telescript

116 Ada reuse in application architectures: a look back at BLSM and forward to ITV-MOD

 Bret A. Senters

November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world**

Publisher: ACM Press

Full text available:  [pdf\(2.17 MB\)](#) Additional Information: [full citation](#), [references](#)

117 A web query system for heterogeneous government data

Nancy Wiegand, Naijun Zhou, Isabel F. Cruz, William Sunna


May 2004 **Proceedings of the 2004 annual national conference on Digital government research dg.o '04**

Publisher: Digital Government Research Center

Full text available:  [pdf\(97.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)


This paper describes a Web-based query system for semantically heterogeneous government-produced data. Geospatial Web-based information systems and portals are currently being developed by various levels of government along with the GIS community. Typically, these sites provide data discovery and download capabilities but do not include the ability to pose DBMS type queries. One of the main problems in querying distributed government data sources is the difference in semantics used by various jurisdictions ...

118 APL and robotics

 A. Martin Euredjian

May 1985 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL: APL and the future APL '85**, Volume 15 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.36 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Program execution speeds on today's general purpose APL running computers do not allow APL to be used as a Robot control language, this execution speed problem will go away with faster and better processors. This paper presents an attempt to make APL work

for Robotics with today's technology. The basic concept is quite simple: Leave to APL what it can do in real time and have another computer running a faster language do the rest. This allows for APL program development until the ...

119 A survey of current object-oriented databases



Mansour Zand, Val Collins, Dale Caviness

February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Object-oriented concepts form a good basis for the data models required for next-generation database applications such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object-oriented databases are available commercially or are being developed by industry or academic research facilities. This paper attempts to compare some of these products using fourteen criteria. The selected criteria are major factors required for the successful design of an object-oriented database ...

Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

120 Process migration



Dejan S. Milošević, Fred Douglass, Yves Paindaveine, Richard Wheeler, Songnian Zhou

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

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121 [Automatic personalization based on Web usage mining](#)

Bamshad Mobasher, Robert Cooley, Jaideep Srivastava

 August 2000 **Communications of the ACM**, Volume 43 Issue 8

Publisher: ACM Press

 Full text available: [pdf\(2.62 MB\)](#) [html\(49.24 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

122 [Information delivery systems in the 1990's: the Local INtegrated Knowledge NETwork \(LINKNET\)](#)

Detmar W. Straub, Cynthia Mathis Beath

 September 1990 **ACM SIGMIS Database**, Volume 21 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(1.29 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In the late 80's, managers, professionals, analysts, and researchers are finding it increasingly difficult to manage the vast array of data and text that are available to them. The fragmentation in media and sources of information, and discontinuities between the information bureaucracies, particularly Information Systems and the library, hinder ready access to information. In the future, this paper argues, a department-level Local INtegrated Knowledge NETwork (LINKNET), will help individuals to ...

123 [Report on the seventh ACM SIGOPS European workshop: systems support for worldwide applications](#)

Andrew S. Tanenbaum

 January 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 1

Publisher: ACM Press

 Full text available: [pdf\(923.32 KB\)](#)

 Additional Information: [full citation](#), [index terms](#)

124 [Discovering Internet marketing intelligence through online analytical web usage mining](#)

Alex G. Büchner, Maurice D. Mulvenna


 December 1998 **ACM SIGMOD Record**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(772.06 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This article describes a novel way of combining data mining techniques on Internet data in order to discover actionable marketing intelligence in electronic commerce scenarios. The data that is considered not only covers various types of server and web meta information, but also marketing data and knowledge. Furthermore, heterogeneity resolution thereof and Internet- and electronic commerce-specific pre-processing activities are embedded. A generic web log data hypercube is formally defined ...

125 Legal, ethical, and societal issues in e-commerce: A United States perspective on the ethical and legal issues of spyware 

 Janice C. Sipior, Burke T. Ward, Georgina R. Roselli

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**


Publisher: ACM Press

Full text available:  pdf(320.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Spyware is regarded as the largest threat to internet users since spam, yet most users do not even know spyware is on their personal computers. Ethical and legal concerns associated with spyware call for a response. A balance must be found between legitimate interests of spyware installers, who have obtained informed consent of users who accept advertisements or other marketing devices, and users who are unwitting targets. Currently, there is not widespread awareness or understanding of the exis ...

Keywords: ethics, law, privacy, spyware, trespass

126 The CHI '95 conference electronic publication: introduction to an experiment 


 Robert Mack, Linn Marks, Dave Collins, Keith Instone

April 1996 **ACM SIGCHI Bulletin**, Volume 28 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.57 MB) Additional Information: [full citation](#), [index terms](#)

127 Querying office systems about document roles 


 A. Celentano, M. G. Fugini, S. Pozzi

September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(798.92 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

128 Window real objects: a distributed shared memory for distributed implementation of GUI applications 


 Noboru Koshizuka, Ken Sakamura

December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: BTRON, distributed shared memory, graphical user interface, multiuser interface, parallel programming, window system

129 Class management for software communities  Simon Gibbs, Eduardo Casais, Oscar Nierstrasz, X. Pintado, Dennis Tsichritzis
September 1990 **Communications of the ACM**, Volume 33 Issue 9**Publisher:** ACM PressFull text available:  pdf(2.01 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


Object-oriented programming may engender an approach to software development characterized by the large-scale reuse of object classes. Large-scale reuse is the use of a class not just by its original developers, but by other developers who may be from other organizations, and may use the classes over a long period of time. Our hypothesis is that the successful dissemination and reuse of classes requires a well-organized community of developers who are ready to share ideas, methods, tools and ...

130 Difficulties in simulating the internet 

Sally Floyd, Vern Paxson

August 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 4**Publisher:** IEEE PressFull text available:  pdf(111.73 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Simulating how the global Internet behaves is an immensely challenging undertaking because of the network's great heterogeneity and rapid change. The heterogeneity ranges from the individual links that carry the network's traffic, to the protocols that interoperate over the links, the "mix" of different applications used at a site, and the levels of congestion seen on different links. We discuss two key strategies for developing meaningful simulations in the face of these difficulties: searching ...

Keywords: Internet, modeling, simulation**131** Student tracking and personalization: Personalization in distributed e-learning environments  Peter Dolog, Nicola Henze, Wolfgang Nejdl, Michael SintekMay 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters****Publisher:** ACM PressFull text available:  pdf(328.49 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Personalized support for learners becomes even more important, when e-Learning takes place in open and dynamic learning and information networks. This paper shows how to realize personalized learning support in distributed learning environments based on Semantic Web technologies. Our approach fills the existing gap between current adaptive educational systems with well-established personalization functionality, and open, dynamic learning repository networks. We propose a service-based architecture ...

Keywords: P2P, adaptation, learning repositories, ontologies, personalization, standards, web services**132** Toward a statistical knowledge network Gary Marchionini, Stephanie Haas, Catherine Plaisant, Ben Shneiderman, Carol Hert
May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03**

Publisher: Digital Government Research Center

Full text available:  pdf(138.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper describes an architecture for a statistical knowledge network that depends on user interfaces as the glue among the components. These interfaces aim to serve non-expert users with diverse needs and statistical and computing experiences. Such interfaces are crucially dependent on different indexing schemes and good metadata.


133 IBM's relational DBMS products: features and technologies



C. Mohan

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(535.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper very briefly summarizes the features and technologies implemented in the IBM relational DBMS products. The topics covered include record and index management, concurrency control and recovery methods, commit protocols, query optimization and execution techniques, high availability and support for parallelism and distributed data. Some indications of likely future product directions are also given.


134 Poster papers: Discovery net: towards a grid of knowledge discovery



V. Čurčín, M. Ghanem, Y. Guo, M. Köhler, A. Rowe, J. Syed, P. Wendel

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available:  pdf(656.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper provides a blueprint for constructing collaborative and distributed knowledge discovery systems within Grid-based computing environments. The need for such systems is driven by the quest for sharing knowledge, information and computing resources within the boundaries of single large distributed organisations or within complex Virtual Organisations (VO) created to tackle specific projects. The proposed architecture is built on top of a resource federation management layer and is compos ...


135 Data replicas in distributed information services



H. M. Gladney

March 1989 **ACM Transactions on Database Systems (TODS)**, Volume 14 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In an information distribution network in which records are repeatedly read, it is cost-effective to keep read-only copies in work locations. This paper presents a method of updating replicas that need not be immediately synchronized with the source data or with each other. The method allows an arbitrary mapping from source records to replica records. It is fail-safe, maximizes workstation autonomy, and is well suited to a network with slow, unreliable, and/or expensive communications links ...

136 Collection development in the electronic library



Kristin Antelman, David Langenberg


November 1993 **Proceedings of the 21st annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available:  pdf(728.69 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

137 An N-dimensional data structure in support of electronic data interchange (EDI)translation


Georges Brigham, Edward Shaw

July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91 APL '91**, Volume 21 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(761.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A method is described by which data in a database system are named using sets. The sets exist in an n-dimensional data space in which each axis represents a homogeneous set and all axes (sets) are orthogonal. Data are represented as mathematical functions of relationships between the sets. Data are named using an ordered combination of the names of the sets. An executable language is used to describe relationships between the sets and to query the database. This methodology lends itself quite co ...

138 Implementing role based access control for federated information systems on the web


Kerry Taylor, James Murty

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 CRPITS '03****Publisher:** Australian Computer Society, Inc.Full text available:  [pdf\(217.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

Keywords: RBAC, federated databases**139** Vertical profiling: understanding the behavior of object-oriented applications

Matthias Hauswirth, Peter F. Sweeney, Amer Diwan, Michael Hind

October 2004 **ACM SIGPLAN Notices , Proceedings of the 19th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '04**, Volume 39 Issue 10**Publisher:** ACM PressFull text available:  [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Object-oriented programming languages provide a rich set of features that provide significant software engineering benefits. The increased productivity provided by these features comes at a justifiable cost in a more sophisticated runtime system whose responsibility is to implement these features efficiently. However, the virtualization introduced by this sophistication provides a significant challenge to understanding complete system performance, not found in traditionally compiled languages ...

Keywords: hardware performance monitors, perturbation, software performance monitors, vertical profiling, whole-system analysis

140 Activeweb: XML-based active rules for web view derivations and access control

Hidenari Kiyomitsu, Atsunori Takeuchi, Katsumi Tanaka

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Computer Society PressFull text available:  pdf(905.05 KB)Additional Information: [full citation](#), [abstract](#), [references](#)[Publisher Site](#)

In this paper, we propose an idea of using XML-based active rules for deriving Web views and for defining access control by user access behaviors. The major objective of the proposed method is to reflect author(creator)'s intention about his/her Web data and its link structures. In our *ActiveWeb*, the view of a Web page including its hyperlinks is changed according to each user's browsing situation including access history or the aggregated information about all users' access histories. In ...

Keywords: ECA rules, XML, activeweb, internet application, spatio-temporal, web personalization, web views

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141 [Information access and retrieval \(IAR\): InfoFilter: a system for expressive pattern](#)

[specification and detection over text streams](#)

Laali Elkhailifa, Raman Adaikkalavan, Sharma Chakravarthy

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: [pdf\(124.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Information filtering includes monitoring text streams to detect patterns that are more complex than those handled by search engines. Text stream monitoring and pattern detection have far reaching applications such as tracking information flow among terrorist outfits, web parental control, and business intelligence. Pattern characterization requirements of applications entail an expressive language for specifying patterns than what is currently provided by Information Retrieval Query Languages (...

142 [Library science education in the online environment](#)

Sheila S. Intner

April 1987 **ACM SIGCUE Outlook**, Volume 19 Issue 3-4

Publisher: ACM Press

Full text available: [pdf\(973.15 KB\)](#) Additional Information: [full citation](#)

143 [Structuring internet media streams with cueing protocols](#)

Jack Brassil, Henning Schulzrinne

August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4


Publisher: IEEE Press

Full text available: [pdf\(282.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a new, media-independent protocol for including program timing, structure, and identity information in Internet media streams. The protocol uses signaling messages called *cues* to indicate events whose timing is significant to receivers, such as the start or stop time of a media program. We describe the implementation and operation of a prototype Internet radio station which transmits program cues in audio broadcasts using the Real-Time Transport Protocol (RTP). A collection of ...


Keywords: content delivery networks, multimedia signaling, real-time transport protocol

(RTP)


144 Identification control: Public key distribution through "cryptoIDs"  Trevor PerrinAugust 2003 **Proceedings of the 2003 workshop on New security paradigms****Publisher:** ACM PressFull text available:  [pdf \(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we argue that person-to-person key distribution is best accomplished with a key-centric approach, instead of PKI: users should distribute public key fingerprints in the same way they distribute phone numbers, postal addresses, and the like. To make this work, fingerprints need to be *small*, so users can handle them easily; *multipurpose*, so only a single fingerprint is needed for each user; and *long-lived*, so fingerprints don't have to be frequently redistribute ...

Keywords: cryptoIDs, fingerprints, key distribution, key management, public key infrastructure


145 Effective Web data extraction with standard XML technologies  Jussi MyllymakiApril 2001 **Proceedings of the 10th international conference on World Wide Web****Publisher:** ACM PressFull text available:  [pdf \(198.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: crawling, data extraction, deep Web, semistructured data, wrappers

146 Surveys: Integration of biological sources: current systems and challenges ahead  Thomas Hernandez, Subbarao KambhampatiSeptember 2004 **ACM SIGMOD Record**, Volume 33 Issue 3**Publisher:** ACM PressFull text available:  [pdf \(78.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper surveys the area of biological and genomic sources integration, which has recently become a major focus of the data integration research field. The challenges that an integration system for biological sources must face are due to several factors such as the variety and amount of data available, the representational heterogeneity of the data in the different sources, and the autonomy and differing capabilities of the sources.

This survey describes the main integration approach ...

147 An interview with Roy Sykes  Ray PolivkaJune 2001 **ACM SIGAPL APL Quote Quad**, Volume 31 Issue 4**Publisher:** ACM PressFull text available:  [pdf \(1.25 MB\)](#) Additional Information: [full citation](#), [abstract](#)

An interview with Roy Sykes at APL99.

148 System Administration Jarra Voleynik, Anna Voleynik
November 1999

Linux Journal**Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(31.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

EMU--Event Management Utility: The authors present a freely available tool for monitoring enterprise systems through simplicity toward complexity


149 Research sessions: potpourri: Mining database structure; or, how to build a data quality browser



Tamraparni Dasu, Theodore Johnson, S. Muthukrishnan, Vladislav Shkapenyuk

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available:  [pdf\(1.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data mining research typically assumes that the data to be analyzed has been identified, gathered, cleaned, and processed into a convenient form. While data mining tools greatly enhance the ability of the analyst to make data-driven discoveries, most of the time spent in performing an analysis is spent in data identification, gathering, cleaning and processing the data. Similarly, schema mapping tools have been developed to help automate the task of using legacy or federated data sources for a n ...

150 The next 700 data description languages



Kathleen Fisher, Yitzhak Mandelbaum, David Walker

January 2006 **ACM SIGPLAN Notices , Conference record of the 33rd ACM SIGPLAN-SIGACT symposium on Principles of programming languages POPL '06**,
Volume 41 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the spirit of Landin, we present a calculus of dependent types to serve as the semantic foundation for a family of languages called *data description languages*. Such languages, which include pads, datascript, and packettypes, are designed to facilitate programming with *ad hoc data*, ie, data not in well-behaved relational or xml formats. In the calculus, each type describes the physical layout and semantic properties of a data source. In the sem ...

Keywords: data description language, dependent types, domain-specific languages


151 Using information technology to integrate social and ethical issues into the computer science and information systems curriculum: report of the ITiCSE '97 working group on social and ethical issues in computing curricula



Mary J. Granger, Joyce Currie Little, Elizabeth S. Adams, Christina Björkman, Don Gotterbarn, Diana D. Juettner, C. Dianne Martin, Frank H. Young

October 1997 **ACM SIGCUE Outlook**, Volume 25 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(1.27 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This report presents the results of a collaborative working group activity focusing on the use of information technology (IT) to integrate social and ethical issues within computer science or information systems courses. The report provides an organizational approach for classifying exercises, based on the issue each one addresses and the course or courses in which it may fit. The exercises in this report are classified by the information technology to be used and the course or courses addressed ...

152 Using information technology to integrate social and ethical issues into the computer science and information systems curriculum (report of the ITiCSE '97 working group on social and ethical issue in computing curricula)

Mary J. Granger, Joyce Currie Little, Elizabeth S. Adams, Christina Björkman, Don Gotterbarn, Diana D. Juettner, C. Dianne Martin, Frank H. Young

June 1997 **The supplemental proceedings of the conference on Integrating technology into computer science education: working group reports and supplemental proceedings**

Publisher: ACM Press


Full text available:  pdf(73.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

153 Design of a high-performance ATM firewall

Jun Xu, Mukesh Singhal

August 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 3

Publisher: ACM Press

Full text available:  pdf(143.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A router-based packet-filtering firewall is an effective way of protecting an enterprise network from unauthorized access. However, it will not work efficiently in an ATM network because it requires the termination of end-to-end ATM connections at a packet-filtering router, which incurs huge overhead of SAR (Segmentation and Reassembly). Very few approaches to this problem have been proposed in the literature, and none is completely satisfactory. In this paper we present the hardware design ...

Keywords: TCP/IP, asynchronous transfer mode, firewall, packet filtering, switch architecture

154 Visualizing packet traces

John A. Zinky, Fredric M. White

October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.34 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an environment for visualizing packet traces that greatly simplifies troubleshooting protocol implementations. Network management centers routinely collect packet traces to tally traffic statistics and to troubleshoot protocol configuration and implementation problems. Previous efforts have focused on the reliable collection of traces and their statistical interpretation. Display of packet traces was restricted to a textual representation of the raw headers. Our prototy ...

155 Ethical issues related to internet development and research

M. Dee Medley, Rebecca H. Rutherford, G. Ernest Anderson, R. Waldo Roth, Stuart A. Varden

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education**

Publisher: ACM Press

Full text available:  pdf(77.36 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

156 Papers from Hotnets-II: Unmanaged Internet Protocol: taming the edge network management crisis



Bryan Ford

January 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: [pdf\(278.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Though appropriate for core Internet infrastructure, the Internet Protocol is unsuited to routing within and between emerging ad-hoc edge networks due to its dependence on hierarchical, administratively assigned addresses. Existing ad-hoc routing protocols address the management problem but do not scale to Internet-wide networks. The promise of ubiquitous network computing cannot be fulfilled until we develop an *Unmanaged Internet Protocol* (UIP), a scalable routing protocol that manages i ...

157 Multimedia and visualization (MV): Exploring an open, distributed multimedia framework to design and develop an adaptive middleware for interactive digital television systems



Glêdson Elias, Adilson B. Lopes, Frederico Borelli, Maurício F. Magalhães

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(131.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interactive digital television systems should provide concepts of middleware for harmonizing and abstracting discrepancies related to hardware and operating systems issues. In such a context, this paper explores a framework for configuration and management of open, distributed multimedia systems with the purpose of designing and developing a component-based adaptive middleware for interactive digital television systems, which incorporates mechanisms for specification, configuration, management a ...

Keywords: adaptive middleware, digital television, software components

158 An analysis of database workload performance on simultaneous multithreaded processors



Jack L. Lo, Luiz André Barroso, Susan J. Eggers, Kourosh Gharachorloo, Henry M. Levy, Sujay S. Parekh

April 1998 **ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture ISCA '98**, Volume 26 Issue 3

Publisher: IEEE Computer Society, ACM Press

Full text available: [pdf\(1.57 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Simultaneous multithreading (SMT) is an architectural technique in which the processor issues multiple instructions from multiple threads each cycle. While SMT has been shown to be effective on scientific workloads, its performance on database systems is still an open question. In particular, database systems have poor cache performance, and the addition of multithreading has the potential to exacerbate cache conflicts. This paper examines database performance on SMT processors using traces of th ...

159 Computer networks: Creating a topic map query tool for mobile devices using J2ME and XML

Stefan Seedorf, Axel Korthaus, Markus Aleksy

January 2005 **Proceedings of the 4th international symposium on Information and communication technologies WISICT '05**

Publisher: Trinity College Dublin

Full text available:  [pdf\(136.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Most of today's enterprises conduct knowledge management initiatives for achieving competitive advantage. Information technology plays a key role in codifying knowledge and distributing it throughout the organization. However, the utilization of mobile technology for supporting knowledge management has been largely overlooked so far. As mobile devices are becoming increasingly powerful and ubiquitous, new possibilities to realize fully integrated knowledge management processes are created. This ...

160 Attacking passwords and bringing down the network: Exploiting open functionality in 



SMS-capable cellular networks

William Enck, Patrick Traynor, Patrick McDaniel, Thomas La Porta

November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**

Publisher: ACM Press

Full text available:  [pdf\(611.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cellular networks are a critical component of the economic and social infrastructures in which we live. In addition to voice services, these networks deliver alphanumeric text messages to the vast majority of wireless subscribers. To encourage the expansion of this new service, telecommunications companies offer connections between their networks and the Internet. The ramifications of such connections, however, have not been fully recognized. In this paper, we evaluate the security impact of the ...

Keywords: denial-of-service, open-functionality, sms, telecommunications

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161 [Accessibility of Internet websites through time](#)

Stephanie Hackett, Bambang Parmanto, Xiaoming Zeng

 September 2003 **ACM SIGACCESS Accessibility and Computing , Proceedings of the 6th international ACM SIGACCESS conference on Computers and accessibility Assets '04**, Issue 77-78

Publisher: ACM Press

Full text available: [pdf\(914.16 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Using Internet Archive's Wayback Machine, a random sample of websites from 1997-2002 were retrospectively analyzed for effects that technology has on accessibility for persons with disabilities and compared to government websites. Analysis of Variance (ANOVA) and Tukey's HSD were used to determine differences among years. Random websites become progressively inaccessible through the years ($p < 0.0001$) [as shown by increasing Web Accessibility Barrier (WAB) scores], while complexity of the w ...

Keywords: internet archive, web accessibility, world wide web

162 [Designing the PDA of the future](#)

Aaron Marcus, Eugene Chen

January 2002 **interactions**, Volume 9 Issue 1

Publisher: ACM Press


Full text available: [pdf\(694.37 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
[html\(39.80 KB\)](#)

In this article, Aaron Marcus and Associates (AM+A) describes a project with Samsung Electronics to design user-interface concepts for the future of wireless devices. AM+A conducted extensive research, including contextual observation, then designed a suite of product ideas that Samsung could incorporate into specific products over the next few years. Samsung also acquired knowledge about the user-interface development process. AM+A sought to design usable as well as useful mobile devices that c ...

163 [Session 10C: information sharing: Channeled multicast for group communications](#)

Paolo Busetta, Antonia Donà, Michele Nori

 July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Publisher: ACM PressFull text available:  [pdf\(153.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Multi-agent systems can benefit from the possibility of broadcasting messages to a wide audience. The audience may include overhearing agents which, unknown to senders, observe conversations and, among other things, pro-actively send suggestions. Current mainstream agent communication languages however lack adequate support for broadcasting. This paper defines the requirements for a form of broadcast that we call *channeled multicast*, whose distinguishing features include the ability to di ...

Keywords: agent communication languages, auction protocols, broadcasting, group communications, multicasting, overhearing

164 [How to make AXIOM into a scratchpad](#)



 Richard D. Jenks, Barry M. Trager

August 1994 **Proceedings of the international symposium on Symbolic and algebraic computation**

Publisher: ACM PressFull text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

165 [Understanding internet topology: principles, models, and validation](#)



David Alderson, Lun Li, Walter Willinger, John C. Doyle

December 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 6


Publisher: IEEE PressFull text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Building on a recent effort that combines a first-principles approach to modeling router-level connectivity with a more pragmatic use of statistics and graph theory, we show in this paper that for the Internet, an improved understanding of its physical infrastructure is possible by viewing the physical connectivity as an annotated graph that delivers raw connectivity and bandwidth to the upper layers in the TCP/IP protocol stack, subject to practical constraints (e.g., router technology) and eco ...


Keywords: degree-based generators, heuristically optimal topology, network design, network topology, router configuration, topology metrics

166 [Benchmarking simple database operations](#)



 W. B. Rubenstein, M. S. Kubicar, R. G. G. Cattell

December 1987 **ACM SIGMOD Record , Proceedings of the 1987 ACM SIGMOD international conference on Management of data SIGMOD '87**, Volume 16 Issue 3

Publisher: ACM PressFull text available:  [pdf\(891.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There are two widely-known benchmarks for database management systems the TP1 benchmarks (Anon et al [1985]), designed to measure transaction throughput, and the Wisconsin benchmarks (Bitton, Dewitt, & Turbyfil [1984]), designed to measure the performance of a relational query processor. In our work with databases on engineering workstations, we found neither of these benchmarks a suitable measure for our applications' needs. Instead, our requirements are for re ...

167

**Strategic IT applications in health care**

Wullianallur Raghupathi, Joseph Tan

December 2002 **Communications of the ACM**, Volume 45 Issue 12**Publisher:** ACM Press

Full text available: pdf(123.82 KB)

html(31.29 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**168 Comparative logical and physical modeling in two OODBMSs**

Nancy K. Wiegand, Teresa M. Adams

September 1994 **ACM SIGAPP Applied Computing Review**, Volume 2 Issue 2**Publisher:** ACM Press

Full text available: pdf(553.69 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An application developer's perspective is used to compare modeling and storage in two Object-Oriented Database Management Systems (OODBMSs): ODE (Object Database and Environment) and ObjectStore. Although both systems are based on the object-oriented language C++, differences exist in their OODBMS designs. Comparing the differences between these two systems provides insight into other possible designs or combinations of features that could be possible in an OODBMS. As part of this discussion, in ...

Keywords: application development, database management systems, logical database design, object-oriented database management systems, physical database design

**169 Terminology management as data management**

Rita Granda, Kara Warburton

November 2001 **Proceedings of the 2001 conference of the Centre for Advanced Studies on Collaborative research****Publisher:** IBM Press

Full text available: pdf(135.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper will demonstrate why terminology should be viewed and managed as a data resource rather than a text resource. We will describe progressive terminology management practices and their benefits to corporate knowledge management.



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